

Notice of Allowability

Application No.

09/478,156

Applicant(s)

BAYIATES, EDWARD L

Examiner

Cam Y T. Truong

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2162

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 9/26/2005.
2. ☒ The allowed claim(s) is/are 1-8,12-19,25-27,50,52-88 and 91-93.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

1. Applicant has amended claims 1, 12, 17, 18, 19, 25, 26, 27, 50, 55, 67, 75, 87, 92, 93 and canceled claims 9-11, 20-24, 28-49, 51, 89-90, 94-100 in the amendment filed on 9/26/2005.

Claims 1-8, 12-19, 25-27, 50, 52-88, and 91-93 are pending in this office action.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with attorney Anne Saturnelli on 11/25/2005.

3. Please replace claims 1, 16-19, 25, 26, 27, 50, 58, 67, 78, 87, 92, 93 with claims 1, 16-19, 25, 26, 27, 50, 58, 67, 78, 87, 92, 93.

1. (Currently Amended) A computer implemented method for producing a visual form of data comprising:

receiving data representing the visual form of data, the data received comprising content data and format data indicating a manner in which the content data is to be visually represented, wherein said format data is applied to said content data to produce said visual form of data, said visual form of data corresponding to one of a print format or a display format;

receiving data indicating a location of selected data;

forming an extraction instruction based on location data identifying the location of selected data;

analyzing said visual form of data using a template and identifying at least some of the content data in accordance with said template after applying said format data to said content data to produce said visual form of data, said visual form of data being characterized by a plurality of dimensions represented using a coordinate system, said template including said extraction instruction used in identifying a location of a string included in said content data, said location of the string being represented using the coordinate system and corresponding to the location of the string as represented in the visual form of data, said extraction instruction including information with respect to a reference marker and a direction in one of the plurality of dimensions where identifying at least some of the content data includes searching in the direction for identifying at least some of the content data in the direction;

extracting a tag value for at least one tag identified in said template; and
storing the identified at least some of content data.

16. (Currently Amended) The method of claim 15 wherein storing the identified at least some of content data further includes storing the identified at least some of content data in association with the data representing a corresponding one of a plurality of visual forms of data.

17. (Currently Amended) Computer readable media containing a computer program to produce a visual form of data, comprising instructions for:

receiving data representing the visual form of data, the data received comprising content data and format data indicating a manner in which the content data is to be visually represented, wherein said format data is applied to said content data to produce said visual form of data, said visual form of data corresponding to one of a print format or a display format;

receiving data indicating a location of selected data;

forming an extraction instruction based on location data identifying the location of selected data;

analyzing said visual form of data using a template and identifying at least some of the content data in accordance with said template after applying said format data to said content data to produce said visual form of data, said visual form of data being characterized by a plurality of dimensions represented using a coordinate system, said

template including said extraction instruction used in identifying a location of a string included in said content data, said location of the string being represented using the coordinate system and corresponding to the location of the string as represented in the visual form of data, said extraction instruction including information with respect to a reference marker and a direction in one of the plurality of dimensions where identifying at least some of the content data includes searching in the direction for identifying at least some of the content data in the direction;

extracting a tag value for at least one tag identified in said template; and
storing the identified content data as at least one tag value.

18. (Currently Amended) Computer system for producing a visual form of data comprising:

a input port receives data representing the visual form of data, the data received comprising content data and format data indicating a manner in which the content data is to be visually represented, wherein said format data is applied to said content data to produce said visual form of data, said visual form of data corresponding to one of a print format or a display format, said input port receiving data indicating a location of selected data;

a processor forms an extraction instruction based on location data identifying the location of selected data, analyzes said visual form of data using a template and identifies at least some of the content data in accordance with said template after applying said format data to said content data to produce said visual form of data,

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wherein said visual form of data being characterized by a plurality of dimensions represented using a coordinate system, wherein said template including said extraction instruction used in identifying a location of a string included in said content data, said location of the string being represented using the coordinate system and corresponding to the location of the string as represented in the visual form of data, said extraction instruction including information with respect to a reference marker and a direction in one of the plurality of dimensions where identifying at least some of the content data includes searching in the direction for identifying at least some of the content data in the direction, said processor extracting a tag value for at least one tag identified in said template; and

a storage media stores the identified the at least some of content data as at least one tag value.

19. (Currently Amended) A method computer implemented for processing a visual form of data comprising:

transmitting a computer program comprising instructions for:

receiving data representing a visual form of data, the data received comprising content data and format data indicating a manner in which the content data is to be visually represented, wherein said format data is applied to said content data to produce said visual form of data, said visual form of data corresponding to one of a print format or a display format;

receiving data indicating a location of selected data;

forming an extraction instruction based on location data identifying the location of selected data;

analyzing said visual form of data using a template and identifying at least some of the content data in accordance with said template after applying said format data to said content data to produce said visual form of data, said visual form of data being characterized by a plurality of dimensions represented using a coordinate system, said template including said extraction instruction used in identifying a location of a string included in said content data, said location of the string being represented using the coordinate system and corresponding to the location of string as represented in the visual form of data, said extraction instruction including information with respect to a reference marker and a direction in one of the plurality of dimensions where identifying at least some of the content data includes searching in the direction for identifying at least some of the content data in the direction;

extracting a tag value for at least one tag identified in said template; and
storing the identified at least some of content data in a database.

25. (Currently Amended) A computer implemented method for producing a visual form of data comprising:

receiving data representing a visual form of data, the data received comprising content data and format data indicating a manner in which the content data is to be visually represented, wherein said format data is applied to said content data to produce

said visual form of data, said visual form of data corresponding to one of a print format or a display format;

receiving data indicating a location of selected data;

forming an extraction instruction based on location data identifying the location of selected data;

analyzing said visual form of data using a template and identifying at least some of the content data in accordance with said template after applying said format data to said content data to produce said visual form of data, said visual form of data being characterized by a plurality of dimensions represented using a coordinate system, said template including said extraction instruction used in identifying a location of a string included in said content data, said location of the string being represented using the coordinate system and corresponding to the location of the string as represented in the visual form of data, said extraction instruction including information with respect to a reference marker and a direction in one of the plurality of dimensions where identifying at least some of the content data includes searching in the direction for identifying at least some of the content data in the direction;

extracting a tag value for at least one tag identified in said template to search or retrieve the visual form of data; and

initiating performance of an action based on results of said identifying of at least some of the content data.

26. (Currently Amended) Computer readable media containing a computer program includes instructions for producing a visual form of data, comprising:

- receiving data representing the visual form of data, the data received comprising content data and format data indicating a manner in which the content data is to be visually represented, wherein said format data is applied to said content data to produce said visual form of data, said visual form of data corresponding to one of a print format or a display format;

- receiving data indicating a location of selected data;

- forming an extraction instruction based on location data identifying the location of selected data;

- analyzing said visual form of data using a template and identifying at least some of the content data in accordance with said template after applying said format data to said content data to produce said visual form of data, said visual form of data being characterized by a plurality of dimensions represented using a coordinate system, said template including said extraction instruction used in identifying a location of a string included in said content data, said location of said string being represented using the coordinate system and corresponding to the location of the string as represented in the visual form of data, said extraction instruction including information with respect to a reference marker and a direction in one of the plurality of dimensions where identifying at least some of the content data includes searching in the direction for identifying at least some of the content data in the direction;

- extracting a tag value for at least one tag identified in said template; and

initiating performance of an action based on results of said identifying at least some of the content data.

27. (Currently Amended) Computer system for producing a visual form of data comprising:

an input port receives data representing the visual form of data, the data received comprising content data and format data indicating a manner in which the content data is to be visually represented, wherein said format data is applied to said content data to produce said visual form of data, wherein said visual form of data corresponding to one of a print format or a display format, said input port receives data indicating a location of selected data;

a processor forms an extraction instruction based on location data identifying the location of selected data, analyzes said visual form of data using a template, and identifies at least some of the content data in accordance with said template after applying said format data to said content data to produce said visual form of data,

said processor initiates performance of an action based on results of said identification of at least some of the content data, where said visual form of data being characterized by a plurality of dimensions represented using a coordinate system, where said template including said extraction instruction used in identifying a location of a string included in said content data, said location being represented using the coordinate system and corresponding to the location of the string as represented in the visual form of data, wherein said extraction instruction including information with respect

to a reference marker and a direction in one of the plurality of dimensions where
identifying at least some of the content data includes searching in the direction for
identifying at least some of the content data in the direction, and

said processor extracts a tag value for at least one tag identified in said template.

50. (Currently Amended) A method computer implemented for processing a visual form
of data comprising:

receiving data representing the visual form of data, the data received comprising
content data and format data indicating a manner in which the content data is to be
visually represented, wherein said format data is applied to said content data to produce
said visual form of data, said visual form of data corresponding to one of a print format
or a display format;

receiving data indicating a location of selected data;

forming an extraction instruction based on location data identifying the location of
selected data;

analyzing said visual form of data using a template and identifying at least some
of the content data in accordance with said template having an extraction instruction
after applying said format data to said content data to produce said visual form of data,
said visual form of data being characterized by a plurality of dimensions represented
using a coordinate system, said template including said extraction instruction used in
identifying a location of a string included in said content data, said location of the string
being represented using the coordinate system and corresponding to the location of the

string as represented in the visual form of data, said extraction instruction including information with respect to a reference marker and a direction in one of the plurality of dimensions where identifying at least some of the content data includes searching in the direction for identifying at least some of the content data in the direction;

extracting a tag value for at least one tag identified in said template; and

storing the identified at least some of content data as at least one tag value.

58. (Currently Amended) The method of claim 57, wherein storing the identified at least some of content data further includes storing the identified at least some of content data in association with the data representing a corresponding one of a plurality of visual forms of data.

67. (Currently Amended) A method computer implemented for processing a visual form of data comprising:

receiving data representing the visual form of data, the data received comprising content data and format data indicating a manner in which the content data is to be visually represented, wherein said format data is applied to said content data to produce said visual form of data, said visual form of data corresponding to one of a print format or a display format;

receiving data indicating a location of selected data;

forming an extraction instruction based on location data identifying the location of selected data;

applying a template to the visual form of data;

analyzing said visual form of data using said template and identifying a portion of the content data in accordance with said template after applying said format data to said content data to produce said visual form of data, said template including extraction instructions indicating how to extract content data from the visual form of data, said visual form of data being characterized by a plurality of dimensions represented using a coordinate system, said template including said extraction instruction used in identifying a location of a string included in said content data, said location being represented using the coordinate system and corresponding to the location of the string as represented in the visual form of data, said extraction instruction including information with respect to a reference marker and a direction in one of the plurality of dimensions where identifying at least some of the content data includes searching in the direction for identifying at least some of the content data in the direction; and

extracting, in accordance with at least one extraction instruction in said template, a tag value for at least one tag identified in said template.

78. (Currently Amended) The method of claim 77, wherein storing the identified at least some of content data further includes storing the identified at least some of content data in association with the data representing a corresponding one of a plurality of visual forms of data.

87. (Currently Amended) A system for processing a visual form of data comprising:

a data receiver receives data representing the visual form of data, the received data comprising content data and format data indicating a manner in which the content data is to be visually displayed, wherein said format data is applied to said content data to produce said visual form of data, said visual form of data corresponding to one of a print format or a display format, said data receiver receiving data indicating a location of selected data, an extraction instruction formed based on location data identifying the location of selected data;

a template runner applies a template to said visual form of the data and analyzes said visual form of data using said template and identifies a portion of the content data used in generating at least one tag value after applying said format data to said content data to produce said visual form of data, said visual form of data being characterized by a plurality of dimensions represented using a coordinate system, said template including said extraction instruction used in identifying a location of a string included in said content data, said location of the string being represented using the coordinate system and corresponding to the location of the string as represented in the visual form of data, said extraction instruction including information with respect to a reference marker and a direction in one of the plurality of dimensions where identifying at least some of the content data includes searching in the direction for identifying at least some of the content data in the direction, a tag value being extracted for at least one tag identified in said template; and

a database in which said template is stored.

92. (Currently Amended) A computer program product stored in a storage medium and used to processing a visual form of data comprising:

a machine executable code receives data representing the visual form of data, the data received comprising content data and format data indicating a manner in which the content data is to be visually represented, wherein said format data is applied to said content data to produce said visual form of data, said visual form of data corresponding to one of a print format or a display format;

a machine executable code receives data indicating a location of selected data;

a machine executable code forms an extraction instruction based on location data identifying the location of selected data;

machine executable code analyzes said visual form of data using a template and identifies at least some of the content data in accordance with said template having an extraction instruction after applying said format data to said content data to produce said visual form of data, said visual form of data being characterized by a plurality of dimensions represented using a coordinate system, said template including said extraction instruction used in identifying a location of a string included in said content data, said location of the string being represented using the coordinate system and corresponding to the location of the string as represented in the visual form of data, said extraction instruction including information with respect to a reference marker and a direction in one of the plurality of dimensions where identifying at least some of the content data includes searching in the direction for identifying at least some of the content data in the direction;

a machine executable code extracts a tag value for at least one tag identified in said template; and

a machine executable code stores the identified at least some of content data in a database.

93. (Currently Amended) A computer program product stored in a storage medium and used to produce a virtual form of data in a computer system comprising:

a machine executable code receives data representing the visual form of data, the data received comprising content data and format data indicating a manner in which the content data is to be visually represented, wherein said format data is applied to said content data to produce said visual form of data, said visual form of data corresponding to one of a print format or a display format;

a machine executable code receives data indicating a location of selected data; machine executable code that forms an extraction instruction based on location data identifying the location of selected data;

a machine executable code applies a template to the visual form of data;

machine executable code analyzes said visual form of data using said template and identifies a portion of the content data in accordance with said template, said template including extraction instructions indicating how to extract content data from the visual form of data after applying said format data to said content data to produce said visual form of data, said visual form of data being characterized by a plurality of dimensions represented using a coordinate system, said template including said

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extraction instruction used in identifying a location of a string included in said content data, said location of the string being represented using the coordinate system and corresponding to the location of the string as represented in the visual form of data, said extraction instruction including information with respect to a reference marker and a direction in one of the plurality of dimensions where identifying at least some of the content data includes searching in the direction for identifying at least some of the content data in the direction;

a machine executable code extracts a tag value for at least one tag identified in said template; and

a machine executable code stores the identified at least some of content data as at least one tag value.

Allowable Subject Matter

4. Claims 1-8, 12-19, 25-27, 50, 52-88, 91-93 are allowed.

The prior art of record alone or in combination, does not teach or fairly suggest the combination of steps as recited in independent claim 1, wherein "analyzing said visual form of data using a template and identifying at least some of the content data in accordance with said template after applying said format data to said content data to produce said visual form of data, said visual form of data being characterized by a plurality of dimensions represented using a coordinate system, said template including said extraction instruction used in identifying a location of a string included in said content data, said location of the string being represented using the coordinate system and corresponding to the location of the string as represented in the visual form of data, said extraction instruction including information with respect to a reference marker and a direction in one of the plurality of dimensions where identifying at least some of the content data includes searching in the direction for identifying at least some of the content data in the direction; extracting a tag value for at least one tag identified in said template; and storing the identified content data";

The prior art of record alone or in combination, does not teach or fairly suggest the combination of steps as recited in independent claims 17, 19 and 50, wherein "analyzing said visual form of data using a template and identifying at least some of the content data in accordance with said template after applying said format data to said content data to produce said visual form of data, said visual form of data being characterized by a plurality of dimensions represented using a coordinate system, said

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template including said extraction instruction used in identifying a location of a string included in said content data, said location of the string being represented using the coordinate system and corresponding to the location of the string as represented in the visual form of data, said extraction instruction including information with respect to a reference marker and a direction in one of the plurality of dimensions where identifying at least some of the content data includes searching in the direction for identifying at least some of the content data in the direction; extracting a tag value for at least one tag identified in said template; and storing the identified content data as at least one tag value”;

The prior art of record alone or in combination, does not teach or fairly suggest the combination of steps as recited in independent claim 18, wherein “a processor forms an extraction instruction based on location data identifying the location of selected data, analyzes said visual form of data using a template and identifies at least some of the content data in accordance with said template after applying said format data to said content data to produce said visual form of data, wherein said visual form of data being characterized by a plurality of dimensions represented using a coordinate system, wherein said template including said extraction instruction used in identifying a location of a string included in said content data, said location of the string being represented using the coordinate system and corresponding to the location of the string as represented in the visual form of data, said extraction instruction including information with respect to a reference marker and a direction in one of the plurality of dimensions where identifying at least some of the content data includes searching in the direction

for identifying at least some of the content data in the direction, said processor extracting a tag value for at least one tag identified in said template; and a storage media stores the identified the at least some of content data as at least one tag value”;

The prior art of record alone or in combination, does not teach or fairly suggest the combination of steps as recited in independent claims 25 and 26, wherein “analyzing said visual form of data using a template and identifying at least some of the content data in accordance with said template after applying said format data to said content data to produce said visual form of data, said visual form of data being characterized by a plurality of dimensions represented using a coordinate system, said template including said extraction instruction used in identifying a location of a string included in said content data, said location of the string being represented using the coordinate system and corresponding to the location of the string as represented in the visual form of data, said extraction instruction including information with respect to a reference marker and a direction in one of the plurality of dimensions where identifying at least some of the content data includes searching in the direction for identifying at least some of the content data in the direction; extracting a tag value for at least one tag identified in said template; and initiating performance of an action based on results of said identifying of at least some of the content data”

The prior art of record alone or in combination, does not teach or fairly suggest the combination of steps as recited in independent claim 27, “said processor initiates performance of an action based on results of said identification of at least some of the content data, where said visual form of data being characterized by a plurality of

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dimensions represented using a coordinate system, where said template including said extraction instruction used in identifying a location of a string included in said content data, said location being represented using the coordinate system and corresponding to the location of the string as represented in the visual form of data, wherein said extraction instruction including information with respect to a reference marker and a direction in one of the plurality of dimensions where identifying at least some of the content data includes searching in the direction for identifying at least some of the content data in the direction, and said processor extracts a tag value for at least one tag identified in said template”;

The prior art of record alone or in combination, does not teach or fairly suggest the combination of steps as recited in independent claim 67, wherein “analyzing said visual form of data using said template and identifying a portion of the content data in accordance with said template after applying said format data to said content data to produce said visual form of data, said template including extraction instructions indicating how to extract content data from the visual form of data, said visual form of data being characterized by a plurality of dimensions represented using a coordinate system, said template including said extraction instruction used in identifying a location of a string included in said content data, said location being represented using the coordinate system and corresponding to the location of the string as represented in the visual form of data, said extraction instruction including information with respect to a reference marker and a direction in one of the plurality of dimensions where identifying at least some of the content data includes searching in the direction for identifying at

least some of the content data in the direction; and extracting, in accordance with at least one extraction instruction in said template, a tag value for at least one tag identified in said template”;

The prior art of record alone or in combination, does not teach or fairly suggest the combination of steps as recited in independent claim 87, wherein a template runner applies a template to said visual form of the data and analyzes said visual form of data using said template and identifies a portion of the content data used in generating at least one tag value after applying said format data to said content data to produce said visual form of data, said visual form of data being characterized by a plurality of dimensions represented using a coordinate system, said template including said extraction instruction used in identifying a location of a string included in said content data, said location of the string being represented using the coordinate system and corresponding to the location of the string as represented in the visual form of data, said extraction instruction including information with respect to a reference marker and a direction in one of the plurality of dimensions where identifying at least some of the content data includes searching in the direction for identifying at least some of the content data in the direction, a tag value being extracted for at least one tag identified in said template; and a database in which said template is stored”; and

The prior art of record alone or in combination, does not teach or fairly suggest the combination of steps as recited in independent claim 92, “wherein machine executable code analyzes said visual form of data using a template and identifies at least some of the content data in accordance with said template having an extraction

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instruction after applying said format data to said content data to produce said visual form of data, said visual form of data being characterized by a plurality of dimensions represented using a coordinate system, said template including said extraction instruction used in identifying a location of a string included in said content data, said location of the string being represented using the coordinate system and corresponding to the location of the string as represented in the visual form of data, said extraction instruction including information with respect to a reference marker and a direction in one of the plurality of dimensions where identifying at least some of the content data includes searching in the direction for identifying at least some of the content data in the direction; a machine executable code extracts a tag value for at least one tag identified in said template; and a machine executable code stores the identified at least some of content data in a database”; and

The prior art of record alone or in combination, does not teach or fairly suggest the combination of steps as recited in independent claim 93, wherein, “machine executable code analyzes said visual form of data using said template and identifies a portion of the content data in accordance with said template, said template including extraction instructions indicating how to extract content data from the visual form of data after applying said format data to said content data to produce said visual form of data, said visual form of data being characterized by a plurality of dimensions represented using a coordinate system, said template including said extraction instruction used in identifying a location of a string included in said content data, said location of the string being represented using the coordinate system and corresponding to the location of the

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string in as represented the visual form of data, said extraction instruction including information with respect to a reference marker and a direction in one of the plurality of dimensions where identifying at least some of the content data includes searching in the direction for identifying at least some of the content data in the direction; a machine executable code extracts a tag value for at least one tag identified in said template; and a machine executable code stores the identified at least some of content data as at least one tag value.

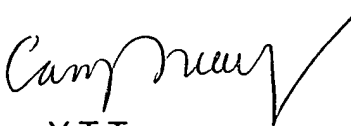
The dependent claims, bring definite, further limiting, and fully enabled by the specification are also allowed.

Contact Information

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cam Y T. Truong whose telephone number is (571) 272-4042. The examiner can normally be reached on Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Cam Y T Truong
Patent Examiner
Art Unit 2162